

WHAT IS CLAIMED IS: (US)

1. A connecting apparatus, comprising:
a cable for electrically connecting an apparatus main
body section to a section rotatably supported by a hinge
member with respect to said apparatus main body section,

wherein:

the cable is provided in parallel to a rotation axis of
the hinge member so as to be held by the apparatus main
body section and the section, respectively, and the cable
has a half-loop shape.

2. The connecting apparatus as set forth in Claim
1, wherein:

the cable is held by the apparatus main body section
and the section, via holding sections, respectively,

each of the holding sections includes a supporting
member having a curvature, and

the cable is supported by the supporting members to
such an extent that frictional force occurs between the
cable and the supporting members.

3. The connecting apparatus as set forth in Claim
1, wherein:

at least the holding section which rotates is provided
in a vicinity of the rotation axis of the hinge member.

4. The connecting apparatus as set forth in Claim 1, wherein:

the cable is a cable bundle of a plurality of insulating coating electric wires, and the cable bundle is covered by a bundling tube.

5. A connecting apparatus, comprising:

a cable for electrically connecting an apparatus main body section to a rotating section which is provided so as to be rotatable around a rotation axis with respect to the apparatus main body section;

a first holding section, provided in parallel to the rotation axis, which holds the cable in the apparatus main body section; and

a second holding section, provided in parallel to the rotation axis, which holds the cable in the rotating section,

the cable between the first and second holding sections forming a curve section.

6. The connecting apparatus as set forth in Claim 5, wherein:

the first holding section includes a first supporting member which is provided to cover and support the cable,

the second holding section includes a second

supporting member which is provided to cover and support the cable,

the first and second supporting members support the cable so as to cause friction against the cable.

7. The connecting apparatus as set forth in Claim 6, wherein:

each of the first and second supporting members has a two-division structure constituted by halved members.

8. The connecting apparatus as set forth in Claim 6, wherein:

each of the first and second supporting members has such a curvature as to cover an outer surface of the cable.

9. The connecting apparatus as set forth in Claim 5, wherein:

the apparatus main body section includes a first connector to which the cable is connected,

the rotating section includes a second connector to which the cable is connected,

at least one bundling member causes the cable between the first connector and the first holding section to be partially attached to a chassis of the apparatus main body section, and at least one bundling member causes the

cable between the second connector and the second holding section to be partially attached to a chassis of the rotating section.

10. The connecting apparatus as set forth in Claim 5, wherein:

the cable is an electric cable bundle of a plurality of insulating coating electric wires, and

the electric cable bundle is covered with a bundling tube.

11. The connecting apparatus as set forth in Claim 5, wherein:

the second holding section of the rotating section is provided in or in a vicinity of the rotation axis.

12. An image scanning apparatus, comprising a connecting apparatus,

said connecting apparatus, comprising:

a cable for electrically connecting an apparatus main body section to a section rotatably supported by a hinge member with respect to said apparatus main body section,

the cable being provided in parallel to a rotation axis of the hinge member so as to be held by the apparatus main body section and the section, respectively, and the cable

having a half-loop shape.

13. An image scanning apparatus, comprising:
 - a connecting apparatus,
 - said connecting apparatus, comprising:
 - a cable for electrically connecting an apparatus main body section to a rotating section which is provided so as to be rotatable around a rotation axis with respect to the apparatus main body section;
 - a first holding section, provided in parallel to the rotation axis, which holds the cable in the apparatus main body section; and
 - a second holding section, provided in parallel to the rotation axis, which holds the cable in the rotating section,
 - the cable between the first and second holding sections forming a curve section.

14. The image scanning apparatus as set forth in Claim 13, wherein:

the connecting apparatus connects an optical scanning section serving as the apparatus main body section to a sheet feeding apparatus serving as the rotating section.

15. An image forming system, comprising an image

scanning apparatus comprising a connecting apparatus,
said connecting apparatus, comprising:
a cable for electrically connecting an apparatus main
body section to a section rotatably supported by a hinge
member with respect to said apparatus main body section,
the cable being provided in parallel to a rotation axis
of the hinge member so as to be held by the apparatus main
body section and the section, respectively, and the cable
having a half-loop shape.

16. An image forming system comprising an image
scanning apparatus including a connecting apparatus,
said connecting apparatus comprising:
a cable for electrically connecting an apparatus main
body section to a rotating section which is provided so as to
be rotatable around a rotation axis with respect to the
apparatus main body section;
a first holding section, provided in parallel to the
rotation axis, which holds the cable in the apparatus main
body section; and
a second holding section, provided in parallel to the
rotation axis, which holds the cable in the rotating section,
the cable between the first and second holding
sections forming a curve section.